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S2	40	ALGINATE (5N) PROTAMINE
S3	17	RD (unique items)
S4	0	S3 AND (ORAL? OR ENTERIC?)
S5	0	S3 AND ANTISENSE
S6	17	S3 AND ALGINATE

>>>KWIC option is not available in file(s): 399

6/3,K/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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14107933 BIOSIS NO.: 200300101962

Boar semen controlled delivery system: Storage and in vitro spermatozoa release.

AUTHOR: Torre M L(a); Faustini M; Norberti R; Stacchezzini S; Maggi L;
Maffeo G; Conte U; Vigo D
AUTHOR ADDRESS: (a)Department of Pharmaceutical Chemistry, University of
Pavia, 27100, Pavia, Italy**Italy E-Mail: marina.torre@unipv.it
JOURNAL: Journal of Controlled Release 85 (1-3):p83-89 13 December 2002
2002
MEDIUM: print
ISSN: 0168-3659
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Swine spermatozoa were encapsulated in barium *alginate* and
protamine-barium *alginate* membranes to lengthen their preservation
time and to provide a means of controlling their release. Precocious
acrosome reactions and secondary anomalies were measured as indices...

...evident at the higher temperature (38degreeC), where cell metabolism is
higher. An in vitro release test of spermatozoa showed a massive cell
delivery from barium *alginate* capsules within 6 h, and a slow release
from *protamine*-barium *alginate* capsules. The properties of
spermatozoa 24 h after release did not differ from the semen stored at
the same temperature in capsules, indicating that the...

METHODS & EQUIPMENT: barium *alginate* capsule...

...*protamine*-barium *alginate* capsule

6/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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14021887 BIOSIS NO.: 200300015916

Boar semen controlled-delivery system: Morphological investigation and in vitro fertilization test.

AUTHOR: Vigo Daniele; Faustini Massimo(a); Torre Maria Luisa; Pecile
Alessandro; Villani Simona; Asti Annalia; Norberti Roberta; Maggi
Lauretta; Conte Ubaldo; Cremonesi Fausto; Stacchezzini Simona; Maffeo
Giovanni

AUTHOR ADDRESS: (a)Dipartimento di Scienze e Tecnologie Veterinarie per la
Sicurezza Alimentare, Facolta di Medicina Veterinaria, Universita di

Milano, Via G. Celoria, 10, 20133, Milano, Italy**Italy E-Mail:
faustina@mailserver.unimi.it
JOURNAL: Reproduction Fertility and Development 14 (5-6):p307-314 2002
MEDIUM: print
ISSN: 1031-3613
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: A technology for encapsulation of swine semen in barium *alginate* and *protamine* *alginate* has recently been proposed for the controlled release of the spermatozoa, thus reducing the number of instrumental inseminations required. Controlled-release capsules containing swine spermatozoa were prepared by adding saturated BaCl₂ solution to ejaculate and dropping the resulting suspension into a sodium *alginate* solution, leading to the formation of barium *alginate* capsules. A second type of capsule was obtained by cross-linking the barium *alginate* with *protamine* sulfate. Two types of membrane were thus obtained: barium *alginate* gel and a *protamine* cross-linked *alginate* membrane. Morphological (scanning electron microscopy and transmission electron microscopy), functional (motility, membrane integrity and *in vitro* fertilization test) and technological (capsule structure and weight) approaches...

...REGISTRY NUMBERS: BARIUM *ALGINATE*

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: barium *alginate*; *protamine* *alginate*

6/3,K/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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13909438 BIOSIS NO.: 200200538259
Multilayer *alginate*/*protamine* microsized capsules: Encapsulation of alpha-chymotrypsin and controlled release study.
AUTHOR: Tiourina Olga P(a); Sukhorukov Gleb B
AUTHOR ADDRESS: (a)Max Planck Institute of Colloids and Interfaces,
Golm/Potsdam, D-14476**Germany
JOURNAL: International Journal of Pharmaceutics (Kidlington) 242 (1-2):p
155-161 21 August, 2002
MEDIUM: print
ISSN: 0378-5173
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

Multilayer *alginate*/*protamine* microsized capsules: Encapsulation of alpha-chymotrypsin and controlled release study.

ABSTRACT: Stable polyelectrolyte microcapsules with size 6.5 μm were produced by means of the layer-by-layer adsorption of sodium *alginate* and *protamine* to surface of melamine formaldehyde microparticles. Core decomposition at low pH leads to formation of polyelectrolyte multilayered capsules filled with *alginate* gel. A proteolytic enzyme, alpha-chymotrypsin, was loaded into these microcapsules by embedding in *alginate* gel with high efficacy. The protein in the capsules was found to retain a high physiological activity of about 70% showed with fluorescent product. The...

...8.0 (0.05 M Tris buffer) in the presence of 2.5% w/v of sodium deoxycholate. The release rate of enzyme from multilayer *alginate*/ *protamine* microcapsules can be regulated by additional adsorption of polyelectrolytes onto the microcapsules with encapsulated protein. Such protein-loaded capsules can be proposed as a drug...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...multilayer *alginate*/*protamine*--

6/3,K/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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11982752 BIOSIS NO.: 199800164085

Comparison of two methods of pancreas islets immunoisolation.

AUTHOR: Orlowski T(a); Sitarek E; Tatarkiewicz K; Sabat M; Antosiak M
AUTHOR ADDRESS: (a)Transplantation Inst., Warsaw Sch. Med., ul. Nowogrodzka
59, 02-006 Warsaw**Poland
JOURNAL: International Journal of Artificial Organs 20 (12):p701-703 Dec.,
1997
ISSN: 0391-3988
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The efficacy of two methods of Langerhans islets immunoisolation was compared. For this purpose the function of islets encapsulated with *alginate*/polyethylenimine/*protamine*/heparin (APPH) or with *alginate*/poly-L-lysine/*alginate* (APA) membranes was assessed: in vitro according to their survival and response to glucose challenges, and in vivo according to their capability to provide sufficient...
METHODS & EQUIPMENT: *alginate*/poly-L-lysine/*alginate* membranes...

...*alginate*/polyethylenimine/*protamine*/heparin membranes

6/3,K/5 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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09757615 BIOSIS NO.: 199598212533

Multilayer coating of islets of Langerhans: In vitro studies on a new method for immunoisolation.

AUTHOR: Tatarkiewicz K(a); Sitarek E; Sabat M; Orlowski T
AUTHOR ADDRESS: (a)Inst. Biocybernetics Biomed. Engineering, PAS, Ul.
Trojdena 4, 02-109 Warsaw**Poland
JOURNAL: Transplantation Proceedings 27 (1):p617 1995
CONFERENCE/MEETING: XVth World Congress of the Transplantation Society
Kyoto, Japan August 28-September 2, 1994
ISSN: 0041-1345
RECORD TYPE: Citation
LANGUAGE: English

MISCELLANEOUS TERMS: *ALGINATE*-*PROTAMINE*-HEPARIN MEMBRANE...

6/3,K/6 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
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1048884 NTIS Accession Number: PB83-234872

Characterization and Modification of Electrochemical Properties of Teeth (Final rept)
Tung, M. S. ; Brown, W. E.
National Bureau of Standards, Washington, DC.
Corp. Source Codes: 004692000
Sponsor: American Dental Association Health Foundation, Chicago, IL.
Jan 83 Sp
Languages: English Document Type: Journal article
Journal Announcement: GRAI8321
Sponsored in part by American Dental Association Health Foundation,
Chicago, IL.
Pub. in Jnl. of Dental Research 62, n1 p60-64 Jan 83.
NTIS Prices: Not available NTIS

... enamel was found to have a preferential affinity for calcium and hydrogen ions. Its permselectivity could be modified by anionic compounds such as phytate and *alginate*, cationic compounds such as *protamine*, polyarginine and polylysine, or alternating coating of the above compounds.

6/3,K/7 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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11323055 Genuine Article#: 635NA No. References: 62

Title: Prospects for spermatogenesis in vitro

Author(s): Parks JE (REPRINT) ; Lee DR; Huang S; Kaproth MT

Corporate Source: Cornell Univ,Dept Anim Sci,201 Morrison

Hall/Ithaca//NY/14853 (REPRINT); Cornell Univ,Dept Anim

Sci,Ithaca//NY/14853; CHA Gen Hosp,Infertil Med Hosp,Seoul//South

Korea/

Journal: THERIOGENOLOGY, 2003, V59, N1 (JAN 1), P73-86

ISSN: 0093-691X Publication date: 20030101

Publisher: ELSEVIER SCIENCE INC, 360 PARK AVE SOUTH, NEW YORK, NY
10010-1710 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: male germ cell survival and progression through meiosis has been reported for the rat, mouse, and man. We demonstrated the expression of spermatid-specific genes (*protamine* and transition protein 1) by *alginate*-encapsulate neonatal bull testis cells after 10 weeks in culture, suggesting that meiosis had occurred. Although identifiable germ cells in these cultures were very sparse...

6/3,K/8 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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11286057 EMBASE No: 2001298764

In vitro production of haploid germ cells from fresh or frozen-thawed testicular cells of neonatal bulls

Lee D.R.; Kaproth M.T.; Parks J.E.

J.E. Parks, Department of Animal Science, Cornell University, 201
Morrison Hall, Ithaca, NY 14853 United States

AUTHOR EMAIL: jep5@cornell.edu

Biology of Reproduction (BIOL. REPROD.) (United States) 2001, 65/3
(873-878)

CODEN: BIREB ISSN: 0006-3363

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 34

...bulls were decapsulated and seminiferous tubules were dissociated enzymatically to recover Sertoli and germ cells. Dissociated cells were reaggregated by phytohemagglutinin and encapsulated by calcium *alginate*, then cultured for up to 14 wk in modified Dulbecco modified Eagle medium/F12 (32degreesC, 5% COSUB2 in air). At 2, 5, and 10 wk...

DRUG DESCRIPTORS:

phytohemagglutinin; calcium *alginate*; *protamine*--endogenous compound--ec; thymostimulin--endogenous compound--ec

CAS REGISTRY NO.: 9008-97-3 (phytohemagglutinin); 9005-35-0 (calcium *alginate*); 11061-43-1...

6/3,K/9 (Item 1 from file: 135)

DIALOG(R)File 135:NewsRx Weekly Reports

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0000083712 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Better culture conditions could improve prospects for in vitro

spermatogenesis

Women's Health Weekly, March 13, 2003, p.38

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English
RECORD TYPE: FULLTEXT
WORD COUNT: 341

... male germ cell survival and progression through meiosis has been reported for the rat, mouse, and man. We demonstrated the expression of spermatid-specific genes (*protamine* and transition protein 1) by *alginate*-encapsulate neonatal bull testis cells after 10 weeks in culture, suggesting that meiosis had occurred," researchers said.

"Although identifiable germ cells in these cultures were...

6/3,K/10 (Item 1 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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11652473 99086764 PMID: 9869940

Experience with pancreas islets separation, immunoisolation and cryopreservation.

Orlowski T; Tatarkiewicz K; Sitarek E; Sabat M; Fiedor P; Samsel R
Transplantation Institute, Warsaw Medical School, Poland.

Annals of transplantation - quarterly of the Polish Transplantation Society (POLAND) 1996, 1 (1) p54-8, ISSN 1425-9524 Journal Code: 9802544

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... in identification of Langerhans islets by means of intravenous injection of I-DTZ was achieved. For immunoisolation of islets, 2 methods were elaborated: capsules containing *alginate*/polyethyleneimine/*protamine* /heparin membrane prepared by modified Sun method, and microcapsules based on Zekorn method. Biocompatibility of hollow fibers, prepared with polypropylene (PP), surface modified PP (PPS...).

... vitro. Only PS fibers were fully compatible. It was shown, that the mixture of exocrine tissue did not influence in vitro insulin secretion, providing that *alginate* in which islets are embedded remain gelled. The efficacy of 3 methods of islets cryopreservation was compared: freezing in "semicontrollable" conditions, in programmable Kriomedpol machine...

6/3,K/11 (Item 2 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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11652383 99086674 PMID: 9869850

Reversal of hyperglycemia in streptozotocin diabetic mice by xenotransplantation of microencapsulated rat islets.

Tatarkiewicz K; Sitarek E; Sabat M; Orlowski T

Institute of Biocybernetics & Biomedical Engineering, Warsaw, Poland.

Annals of transplantation - quarterly of the Polish Transplantation Society (POLAND) 1997, 2 (2) p20-3, ISSN 1425-9524 Journal Code: 9802544

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Rat pancreatic islets were immunoisolated within *alginate* capsules with additional polyethyleneimine-*protamine* -heparin highly biocompatible membrane. Perfusion study in vitro demonstrated satisfactory similarities between the insulin release profiles of encapsulated and free islets.

Concordant xenotransplantation of microencapsulated...

6/3,K/12 (Item 3 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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08159731 94225606 PMID: 8171670

Successful rat-to-mouse xenotransplantation of Langerhans islets microencapsulated within a protamine-heparin membrane.

Tatarkiewicz K; Sitarek E; Fiedor P; Sabat M; Morzycka-Michalik M; Orlowski T

Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences, Warsaw.

Transplantation proceedings (UNITED STATES) Apr 1994, 26 (2) p807-8,
ISSN 0041-1345 Journal Code: 0243532

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Chemical Name: Alginates; Biocompatible Materials; Biological Markers; Blood Glucose; Capsules; Protamines; *alginate*-polylysine-*alginate*; *protamine*-heparin membrane; Polylysine; Polyethyleneimine; Heparin

6/3,K/13 (Item 1 from file: 357)

DIALOG(R)File 357: Derwent Biotech Res.

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0075720 DBR Accession No.: 88-06569 PATENT

Mycobacterium bovis, Mycobacterium tuberculosis and Mycobacterium smegmatis cell extract preparation - cytostatic and adjuvant activity (US Equivalent)

PATENT ASSIGNEE: Mitsui-Tsatsu-Chem. 1988

PATENT NUMBER: US 4726947 PATENT DATE: 880223 WPI ACCESSION NO.: 79-68364B (7938)

PRIORITY APPLIC. NO.: JP 7826519 APPLIC. DATE: 780310

NATIONAL APPLIC. NO.: US 271647 APPLIC. DATE: 810608

LANGUAGE: English

...ABSTRACT: flocculant comprises (i) 0.1-10 wt.% polyvalent metal salts; (ii) 0.01-1.0 wt.% polyacrylamides and polyamines; (iii) 0.01-10 wt.% chitosan *protamine* sulfate or radium *alginate*, and (iv) 0.1-10 wt.% streptomycin salt and kanamycin salt. The precipitate has high cytostatic and adjuvant activity with slight side effects. (9pp)

6/3,K/14 (Item 1 from file: 399)

DIALOG(R)File 399: CA SEARCH(R)

(c) 2003 American Chemical Society. All rts. reserv.

138112303 CA: 138(8)112303a CONFERENCE PROCEEDING

A new boar sperm delivery device: in vitro evaluation of spermatozoa availability

AUTHOR(S): Torre, M. L.; Maggi, L.; Faustini, M.; Vigo, D.; Stacchezzini, S.; Maffeo, G.; Miglioli, M. C.; Conte, U.

LOCATION: Department of Pharmaceutical Chemistry, University of Pavia, 27100, Pavia, Italy

JOURNAL: Proc. - 28th Int. Symp. Controlled Release Bioact. Mater. 4th Consum. Diversified Prod. Conf. (Proceedings - 28th International Symposium on Controlled Release of Bioactive Materials and 4th Consumer & Diversified Products Conference, San Diego, CA, United States, June 23-27, 2001)

DATE: 2001 VOLUME: 2, PAGES: 1249-1250 CODEN: 69CNY8 LANGUAGE: English PUBLISHER: Controlled Release Society, Minneapolis, Minn

6/3,K/15 (Item 2 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

(c) 2003 American Chemical Society. All rts. reserv.

130172908 CA: 130(13)172908w JOURNAL

Calcium alginate capsules containing a hydrophilic polymer for the encapsulation of swine spermatozoa

AUTHOR(S): Torre, M. L.; Maggi, L.; Giunchedi, P.; Conte, U.; Vigo, D.; Maffeo, G.

LOCATION: Dipartimento di Chimica Farmaceutica, Universita di Pavia, 27100, Pavia, Italy

JOURNAL: S.T.P. Pharma Sci. DATE: 1998 VOLUME: 8 NUMBER: 4 PAGES: 233-236 CODEN: STSSE5 ISSN: 1157-1489 LANGUAGE: English PUBLISHER: Editions de Sante

6/3,K/16 (Item 3 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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118198264 CA: 118(20)198264k PATENT

Method for manufacturing a protein membrane for encapsulating biological and/or biologically active materials

INVENTOR(AUTHOR): Tatarkiewicz, Krystyna

LOCATION: Pol.

ASSIGNEE: Polska Akademia Nauk, Instytut Biocybernetyki i Inżynierii Biomedycznej

PATENT: Poland ; PL 154373 B1 DATE: 911129

APPLICATION: PL 267078 (870730)

PAGES: 2 pp. CODEN: POXXA7 LANGUAGE: Polish CLASS: C12N-005/00A; A61K-009/52B

6/3,K/17 (Item 1 from file: 156)

DIALOG(R)File 156:ToxFile

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03878335 NLM Doc No: CRISP/95/GM49039-01A2 Sec. Source ID:
CRISP/95/GM49039-01A2

PERIVASCULAR DRUG DELIVERY

EDELMAN ER

MASSACHUSETTS INST OF TECHNOLO, 77 MASSACHUSETTS AVE, CAMBRIDGE, MA 02139

Source: Crisp Data Base National Institutes Of Health

City or State: MASSACHUSETTS Zip Code: 02139

Pub. Year: 1994

Sponsoring Agency: U.S. DEPT. OF HEALTH AND HUMAN SERVICES; PUBLIC HEALTH SERVICE; NATIONAL INST. OF HEALTH, NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES

Award Type: Grant

Document type: Research

Languages: ENGLISH

Record type: Completed

...Identifiers: rabbit; laboratory rat; vasoactive agent; arteriosclerosis; cardiovascular disorder chemotherapy; cardiovascular pharmacology; drug delivery system; pharmacokinetics; acetate; glycolate; lactate; fibroblast growth factor; transforming growth factor; inulin; *alginate*; immunocytochemistry; copolymer; polyvinyl; heparin; *protamine*; human therapy evaluation; mixed tissue /cell culture; implant; microcapsule; clearance rate; CRISP; RPROJ
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<u>L5</u>	L4 and antisense and enteric	5	<u>L5</u>
<u>L4</u>	alginate same (lysine or protamine)	897	<u>L4</u>
<u>L3</u>	L2 and antisense and enteric	35	<u>L3</u>
<u>L2</u>	alginate and (poly with lysine)	801	<u>L2</u>
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Set	Items	Description
S1	0	ALGINATE (4N) (POLY LYSINE)
S2	40	ALGINATE (5N) PROTAMINE
S3	17	RD (unique items)
S4	0	S3 AND (ORAL? OR ENTERIC?)
S5	0	S3 AND ANTISENSE
S6	17	S3 AND ALGINATE

>>>KWIC option is not available in file(s):